

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

- 1.1. Product identifier
- 1.1.1. Product Name: MOPS BLEB
 - 1.1.2. Product Number: M557
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
- 1.2.1. Use of the substance/preparation: Culture medium. For professional use/industrial use only.
 - 1.2.2. Use advised against: All uses not specified in this section or in section 7.3.
- 1.3. Company information
- 1.3.1. Manufacturer: Millennium LifeSciences, Inc.
 - 1.3.2. Address: 970 E. Orangethorpe Ave. Unit A
Anaheim, CA 92801
 - 1.3.3. Phone: 714.773.1726
 - 1.3.4. Emergency phone: 714.773.1726
 - 1.3.5. Email: info@mlscmc.com

SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1. Classification of the substance or mixture
- 2.1.1. NFPA:
 - 2.1.1.1. Health Hazards: 1
 - 2.1.1.2. Flammability Hazards: 0
 - 2.1.1.3. Instability Hazards: 0
 - 2.1.1.4. Special Hazards: Non-applicable
 - 2.1.2. GHS Classification in accordance with 29 CFR 1910.1200:
 - 2.1.2.1. Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302
 - 2.1.2.2. Repr. 1B: Reproductive toxicity, Category 1B, H360
 - 2.1.2.3. For the full text of H-Statements mentioned in this Section, see Section 16.
- 2.2. GHS Label elements, including precautionary statements
- 2.2.1. Pictogram
- NFPA:



29 CFR 1920.1200:



- 2.2.2. Signal word
 - 2.2.2.1. Warning
- 2.2.3. Hazard statement(s)
 - 2.2.3.1. H302: Acute Tox. 4: Harmful if swallowed
 - 2.2.3.2. H317: Skin Sens. 1: May cause an allergic skin reaction
 - 2.2.3.3. H360: Repr. 1B: May damage fertility or the unborn child

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2.2.4. Precautionary statements:

- 2.2.4.1. P101: If medical advice is needed, have product container or label at hand
- 2.2.4.2. P102: Keep out of reach of children
- 2.2.4.3. P201: Obtain special instructions before use
- 2.2.4.4. P261: Avoid breathing dust/fume/gas/mist/vapors/spray
- 2.2.4.5. P280: Wear protective gloves/protective clothing/eye protection/face protection
- 2.2.4.6. P308+P313: IF exposed or concerned: Get medical advice/attention
- 2.2.4.7. P501: Dispose of contents and/or their container according to the separated collection system used in your municipality.

2.2.5. Substances that contribute to the classification:

- 2.2.5.1. Cycloheximide (ISO) (CAS: 66-81-9)

2.3. Other hazards:

- 2.3.1. May cause irritation of the eyes and skin.
- 2.3.2. May cause irritation to respiratory system.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

- 3.1.1. Not applicable, mixture.

3.2. Mixtures

- 3.2.1. This product is a mixture of the substances listed below with the addition of non-hazardous materials

Component	CAS No.	EC No.	Registration Number	Classification	Concentration
Cycloheximide (ISO)	66-81-92	200-636-0	613-140-00-8	Acute Tox 2: H300; Muta. 2: H341; Repr. 1B: H360 - Danger	<0.5%

SECTION 4: FIRST-AID MEASURES

4.1. First-aid measures

4.1.1. General

- 4.1.1.1. In case of doubt, or when symptoms persist, seek medical attention.

4.1.2. Inhalation

- 4.1.2.1. Move the exposed person to fresh air. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.

4.1.3. Eye contact

- 4.1.3.1. Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.

4.1.4. Skin contact

- 4.1.4.1. Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.

4.1.5. Ingestion

- 4.1.5.1. Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

4.2.1. Inhalation:

- 4.2.1.1. May cause irritation to respiratory system.

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- 4.2.2. Eye contact:
 - 4.2.2.1. May cause irritation to eyes.
- 4.2.3. Skin contact:
 - 4.2.3.1. May cause irritation to skin.
- 4.2.4. Ingestion:
 - 4.2.4.1. Ingestion may cause nausea and vomiting.
- 4.3. Indication of any immediate medical attention and special treatment needed
 - 4.3.1. Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

- 5.1. Suitable Extinguishing Media
 - 5.1.1. Use extinguishing media appropriate to the surrounding fire conditions.
- 5.2. Special hazards arising from the substance or mixture
 - 5.2.1. Smoke from fires is toxic. Take precautions to protect personnel from exposure.
 - 5.2.2. Avoid formation of dust. Do not allow undiluted product to be released to ground water, water course, or sewage system.
- 5.3. Recommendations for firefighters
 - 5.3.1. Do not breathe dust or vapor. Wear self-contained breathing apparatus and chemical-protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment, and emergency procedures
 - 6.1.1. Avoid formation of dust.
 - 6.1.2. Use as appropriate: Protective equipment, protective clothing.
 - 6.1.3. Ensure adequate ventilation of the working area.
 - 6.1.4. Avoid prolonged or repeated exposure.
- 6.2. Environmental Precautions
 - 6.2.1. Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.
- 6.3. Methods and materials used for containment and cleanup
 - 6.3.1. Avoid formation of dust. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling
 - 7.1.1. Precautions for safe manipulation:
 - 7.1.1.1. Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (Section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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- 7.1.2. Technical recommendations for the prevention of fires and explosives
 - 7.1.2.1. Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation, and use.
- 7.1.3. Technical recommendations to prevent ergonomic and toxicological risks
 - 7.1.3.1. PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See Section 8). Limit manual transfers to containers of small amounts. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.
- 7.1.4. Technical recommendations to prevent environmental risks
 - 7.1.4.1. It is recommended to have absorbent material available at close proximity to the product (See Subsection 6.3)
- 7.2. Conditions for safe storage, including any incompatibilities
 - 7.2.1. Store at temperatures not exceeding 30°C/86°F. Keep cool.
 - 7.2.2. Store in a well-ventilated place. Keep container tightly closed.
 - 7.2.3. Store in a dry place.
 - 7.2.4. Avoid sources of heat, radiation, static electricity, and contact with food.
 - 7.2.5. Storage class (TRGS 510): 11: Combustible solids
- 7.3. Specific end use(s)
 - 7.3.1. Apart from the uses mentioned in Section 1.2 no other specified uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Control parameters
 - 8.1.1. Substances whose occupation exposure limits have to be monitored in the workplace
 - 8.1.2. Nuisance dust: Inhalable dust 10 mg/m³ // Respirable dust 4 mg/m³
- 8.2. Exposure Controls



- 8.2.1. Appropriate engineering controls:
 - 8.2.1.1. Ensure adequate ventilation of the working area.
- 8.2.2. Individual protection measures:
 - 8.2.2.1. Use as appropriate: Protective equipment.
- 8.2.3. Eye/face protection:
 - 8.2.3.1. Use as appropriate: Suitable eye protection.
- 8.2.4. Skin protection – Hand protection:
 - 8.2.4.1. Use as appropriate: Chemical-resistant gloves made by any waterproof material. Wash the outside of gloves before removing them.
- 8.2.5. Skin protection – Other:
 - 8.2.5.1. Use as appropriate: Protective clothing. Wash contaminated clothing, separately from other laundry, with detergent and water before reuse.
- 8.2.6. Respiratory protection:
 - 8.2.6.1. In case of insufficient ventilation, wear suitable respiratory equipment. Dust may be irritating if inhaled.
- 8.2.7. Occupational exposure controls:

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8.2.7.1. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- 9.1.** Information on physical and chemical properties
 - 9.1.1.** Physical state at 68°F: Solid
 - 9.1.2.** Appearance: Homogenous, free-flowing powder, light beige to beige
 - 9.1.3.** Odor: No information available.
 - 9.1.4.** pH: Not applicable
 - 9.1.5.** Melting point/Range: No information available.
 - 9.1.6.** Boiling point/Range: Not determined
 - 9.1.7.** Flashpoint: No information available.
 - 9.1.8.** Evaporation Rate: No information available.
 - 9.1.9.** Flammability: No information available.
 - 9.1.10.** Vapor Pressure: No information available.
 - 9.1.11.** Vapor Density: No information available.
 - 9.1.12.** Relative Density: No information available.
 - 9.1.13.** Solubility in water: Soluble in water.
 - 9.1.14.** Partition Coefficient (n-Octanol/Water): No information available.
 - 9.1.15.** Autoignition Temperature: Product is not self-igniting.
 - 9.1.16.** Viscosity: Product is free-flowing powder
 - 9.1.17.** Explosive Properties: Product does not present an explosion hazard
 - 9.1.18.** Oxidizing Properties: Product is not classified as an oxidizer
- 9.2.** Other information:
 - 9.2.1.** No information available.

SECTION 10: STABILITY AND REACTIVITY

- 10.1.** Reactivity
 - 10.1.1.** Stable under normal conditions.
- 10.2.** Chemical stability
 - 10.2.1.** Considered stable under normal conditions.
- 10.3.** Possibility of hazardous reactions
 - 10.3.1.** No hazardous reactions known if used for its intended purpose.
- 10.4.** Conditions to avoid
 - 10.4.1.** Keep away from extreme temperatures. Protect from moisture.
- 10.5.** Incompatible materials
 - 10.5.1.** No data available.
- 10.6.** Hazardous decomposition products
 - 10.6.1.** Decomposition products may include carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

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11.1. Information on toxicological effects

11.1.1. No experimental test data available for the mixture

11.1.2. Dangerous health implications:

11.1.3. In case of exposure that is repetitive, prolonged, or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure

11.1.4. Mixture

11.1.5. Acute toxicity

11.1.5.1. Acute toxicity estimate Oral: > 5,000 mg/kg

11.1.5.2. (Calculation method)

11.1.5.3. Inhalation: No data available

11.1.5.4. Acute toxicity estimate Dermal: > 5,000 mg/kg

11.1.5.5. (Calculation method)

11.1.6. Skin corrosion/irritation

11.1.6.1. May cause irritation to skin.

11.1.7. Serious eye damage/eye irritation

11.1.7.1. May cause irritation to eyes.

11.1.8. Respiratory or skin sensitization

11.1.8.1. May cause allergic reactions in susceptible people.

11.1.9. Carcinogenicity

11.1.9.1. NTP: Not listed

11.1.9.2. IARC: Not listed

11.1.9.3. OSHA: Not listed

11.1.10. Mutagenicity

11.1.10.1. Based on available data, the classification criteria are not met, however, it does contain substances classified as dangerous with mutagenic effects. For more information see Section 3.

11.1.10.2. Reproductive toxicity: May damage fertility or the unborn child.

11.1.11. Teratogenicity

11.1.11.1. Suspected of damaging the unborn child.

11.2. Specific toxicology information on the substances:

Identification	Acute toxicity	
Cycloheximide (ISO) CAS: 66-81-9	LD50 oral	5 mg/kg (ATEi)
	LD50 dermal	Non-applicable
	LC50 inhalation	Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

12.1.1. No data available.

12.2. Persistence and degradability:

12.2.1. No information available.

12.3. Bioaccumulation Potential:

12.3.1. No information available.

12.4. Mobility in soil:

12.4.1. No information available.

12.5. Results of PBT and vPvB assessment

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- 12.5.1. Not a PBT according to REACH annex XIII
- 12.5.2. PBT/vPvB assessment not available
- 12.6. Other adverse effects
 - 12.6.1. Caution – substance not yet fully tested.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods
 - 13.1.1. Disposal should be in accordance with local, state, or national legislation.
- 13.2. Contaminated packaging
 - 13.2.1. Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

- 14.1. UN number: Not classified as hazardous for transport
- 14.2. UN proper shipping name: Not applicable
- 14.3. Transport hazard class(es): Not applicable
- 14.4. Packing group number: Not applicable
- 14.5. Environmental hazards: Not classified
- 14.6. Special precautions for user: Not classified.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not classified.
- 14.8. Domestic Surface Transport (US DOT)
 - 14.8.1. Proper Shipping Name: Not applicable
 - 14.8.2. DOT UN No.: Not applicable
 - 14.8.3. DOT Hazard Class: Not applicable
 - 14.8.4. DOT Packaging Group: Not applicable
- 14.9. International Road/Rail (ADR/RID)
 - 14.9.1. Proper Shipping Name: Not applicable
 - 14.9.2. ADR UN No.: Not applicable
 - 14.9.3. ADR Hazard Class: Not applicable
 - 14.9.4. ADR Packing Group: Not applicable
 - 14.9.5. Tunnel Code: Not applicable
- 14.10. Ocean/Sea (IMO/MDG)
 - 14.10.1. Proper Shipping Name: Not applicable
 - 14.10.2. IMDG UN No.: Not applicable
 - 14.10.3. IMDG Hazard Class: Not applicable
 - 14.10.4. IMDG Pack Group.: Not applicable
- 14.11. Air (ICAO/IATA)
 - 14.11.1. Proper Shipping Name: Not applicable
 - 14.11.2. ICAO Un No.: Not applicable
 - 14.11.3. ICAO Hazard Class: Not applicable
 - 14.11.4. ICAO Packing Group: Not applicable
- 14.12. Further information
 - 14.12.1. Not classified as dangerous in the meaning of transport regulations.
 - 14.12.2. Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises
 - 14.12.3. Physico-Chemical properties: See Section 9

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SECTION: 15: REGULATORY INFORMATION

- 15.1.** Safety, health, and environmental regulations/legislation specific for the substance or mixture
- 15.1.1.** This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010 and OSHA Hazard Communication Standard 29 CFR 1910.1200.
- 15.1.2.** Regulation (EC) No. 1272/2008 on the classification, labelling, and packaging of substances and mixtures (CLP Regulation) applies in Europe.
- 15.2.** Chemical Safety Assessment: No information available
- 15.3.** United States Regulatory Information

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: The material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Toxic Substance Control Act (TSCA)

All components of this material are either listed or exempt from listing on the TSCA Inventory.

State Right-to-Know

Massachusetts

Cycloheximide (ISO), CAS No. 66-81-9
Sodium phosphate dibasic, CAS No. 7558-79-4

New Jersey

Cycloheximide (ISO), CAS No. 66-81-9
Sodium phosphate dibasic, CAS No. 7558-79-4

Pennsylvania

Cycloheximide (ISO), CAS No. 66-81-9
Phosphoric acid disodium salt, CAS No. 7558-79-4

California Prop 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: Cycloheximide (ISO), CAS No. 66-81-9

15.4. Canadian Regulatory Information

15.4.1. Inventory Status

Domestic Substances List (DSL)	Listed
Non-Domestic Substances List (NDSL)	Not listed

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SECTION 16: OTHER INFORMATION

- 16.1.** This document is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY. Millennium LifeSciences, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.
- 16.2.** Texts of legislative phrases mentioned in Section 2:
- 16.2.1.** H360: May damage fertility or the unborn child
 - 16.2.2.** H302: Harmful if swallowed
- 16.3.** Texts of the legislative phrases mentioned in Section 3:
- 16.3.1.** The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in Section 3.
- 16.4.** 29 CFR 1910.1200:
- 16.4.1.** Muta. 2: H341 – Suspected of causing genetic defects
 - 16.4.2.** Repr. 1B: H360 – May damage fertility or the unborn child